

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

**REVOCATION OF POWER OF ATTORNEY
AND NEW POWER OF ATTORNEY BY ASSIGNEE
AND CHANGE OF CORRESPONDENCE ADDRESS**

NOKIA CORPORATION, the Assignee of record hereby revokes all powers of attorney previously granted with respect to each of the United States patent applications identified in Schedule A attached hereto, and appoints the practitioners associated with the Customer Number provided below to prosecute the noted applications and to transact all business in the Patent and Trademark Office connected therewith, and directs that all correspondence be addressed to that Customer Number:

Customer Number 10949

with full power of substitution and revocation to transact all business in the Patent and Trademark Office in connection therewith.

Please direct telephone calls to the attention of:

Guy R. Gosnell
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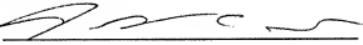
NOKIA CORPORATION, the assignee of record, hereby elects under 37 C.F.R. § 3.71 to prosecute these patent applications and certifies that it is the assignee of the entire right, title, and interest in each United States patent application noted in Schedule A by virtue of an assignment from the inventor(s) to Nokia Corporation.

As required by 37 CFR 3.73(b)(1)(ii), the documentary evidence of the chain of title from the original owner to the assignee was submitted for recordation pursuant to 37 CFR 3.11, and the reel and frame numbers confirming recordation in the US Patent Office are provided in Schedule A.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the Assignee.

Assignee of Record:

NOKIA CORPORATION

By: 

Print Name: Thomas Arria

Title: Senior IPR Specialist

Date:

4/11/12

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LEGAL01\13180529v2

SCHEDULE A
Revocation of Power of Attorney and New Power of Attorney
By Assignee Nokia Corporation

| Nokia Ref. | Attorney Docket No. | Appl. No. | Filing Date | Conf. No. | Assignment Reel/Frame |
|-----------------|---------------------|------------|-------------|-----------|--|
| 17604-US-DIV | 042933/417395 | 11/881,367 | 7/26/2007 | 1389 | 014385/0356-(Recorded in parent Appl. No. 10/421,629) |
| 17623-US-CNT | 042933/417396 | 11/408,908 | 4/21/2006 | 9810 | 013204/0473-(Recorded in parent Appl. No. 10/171,467) |
| 17623-US-DIV | 042933/417397 | 11/901,667 | 9/17/2007 | 6699 | 014507/0298-(Recorded in parent Appl. No. 10/459,126) |
| 18786-US-CNT | 042933/417398 | 12/862,240 | 8/24/2010 | 3651 | 016120/0739-(Recorded in parent Appl. No. 10/496,601) |
| 19129-US-CNT | 042933/417399 | 12/899,701 | 10/7/2010 | 6341 | 015290/0912-(Recorded in parent Appl. No. 10/763,805) |
| 19460-US-PCT | 042933/417400 | 10/516,887 | 7/25/2005 | 6812 | 017174/0670 |
| 19770-US-PCT | 042933/417402 | 10/548,741 | 6/19/2006 | 4726 | 018021/0729 |
| 31695-US-PCT | 042933/417403 | 12/086,730 | 10/23/2008 | 2649 | 021303/0633 |
| 32135-US-PCT | 042933/417404 | 10/516,870 | 8/25/2005 | 2379 | 016058/0188 |
| 32154-US-PCT | 042933/417405 | 10/530,952 | 12/15/2005 | 2243 | 016313/0610 |
| 32546-US-CNT[2] | 042933/417406 | 11/453,791 | 6/14/2006 | 6786 | 012487/0487-(Recorded in parent Appl. No. 09/777,521) 018906/0442 |
| 33008-US-NP | 042933/417407 | 10/187,393 | 6/27/2002 | 3451 | 013373/0858 |
| 33867-US-PCT | 042933/417408 | 10/584,381 | 4/11/2007 | 1277 | 019242/0147 |
| 35592-US-CNT | 042933/417409 | 10/781,325 | 2/17/2004 | 9454 | 012934/0016-(Recorded in parent Appl. No. 10/115,268) |
| 35910-US-CIP | 042933/417410 | 10/291,192 | 11/8/2002 | 2503 | 015179/0217 |
| 35949-US-NP | 042933/417411 | 10/621,259 | 7/15/2003 | 9729 | 014503/0102 |
| 36003-US-NP | 042933/417412 | 10/255,560 | 9/25/2002 | 1646 | 013711/0626 |
| 36416-US-CNT | 042933/417413 | 12/803,098 | 6/17/2010 | 6026 | 015157/0543 016214/0041 |
| 36457-US-NP | 042933/417414 | 10/782,372 | 2/18/2004 | 3558 | 015574/0165 |
| 36516-US-NP | 042933/417415 | 10/854,765 | 5/26/2004 | 5937 | 015932/0380 |
| 36531-US-NP | 042933/417416 | 10/602,540 | 6/23/2003 | 1200 | 014793/0040 |
| 36561-US-NP | 042933/417417 | 10/656,886 | 9/4/2003 | 1554 | 014947/0715 |
| 36762-US-REI | 042933/417418 | 13/411,189 | 3/2/2012 | 1400 | 015308/0324-(Recorded in parent Appl. No. 10/705,077) |
| 37097-US-NP | 042933/417419 | 10/746,843 | 12/24/2003 | 9210 | 015339/0994 |
| 37250-US-NP | 042933/417422 | 11/015,755 | 12/16/2004 | 4222 | 015700/0477 |
| 37293-US-NP | 042933/417423 | 10/692,290 | 10/23/2003 | 7122 | 014970/0234 |
| 37298-US-CNT | 042933/417424 | 12/150,307 | 4/25/2008 | 5670 | 014970/0221-(Recorded in parent Appl. No. 10/692,291) |
| 37298-US-NP | 042933/417425 | 10/692,291 | 10/23/2003 | 4222 | 015700/0477 |
| 37379-US-NP | 042933/417427 | 11/049,638 | 2/1/2005 | 7063 | 016664/0093 |
| 37692-US-NP | 042933/417428 | 12/084,677 | 5/5/2008 | 1655 | 020946/0937 |

Signature:

Thomas Arria

Date:

4/11/12

SCHEDULE A
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By Assignee Nokia Corporation

| Nokia Ref. | Attorney Docket No. | Appl. No. | Filing Date | Conf. No. | Assignment Reel/Frame |
|--------------|---------------------|------------|-------------|-----------|---|
| 41039-US-CNT | 042933/417429 | 12/804,803 | 7/28/2010 | 1349 | 016173/0026-(Recorded in parent Appl. No. 11/039,058) |
| 41627-US-PCT | 042933/417430 | 12/227,313 | 2/18/2009 | 6491 | 022136/0839 |
| 42325-US-PCT | 042933/417431 | 11/922,647 | 12/20/2007 | 7744 | 021015/0428 |
| 42722-US-PCT | 042933/417432 | 10/560,675 | 2/23/2007 | 2319 | 020187/0821 |
| 43008-US-NP | 042933/417433 | 10/782,399 | 2/18/2004 | 4342 | 014772/0120 |
| 43056-US-NP | 042933/417434 | 10/668,105 | 9/22/2003 | 7632 | 014876/0767 |
| 43143-US-PCT | 042933/417435 | 10/582,833 | 6/14/2006 | 6761 | 018002/0366 |
| 43315-US-NP | 042933/417436 | 10/805,678 | 3/18/2004 | 8566 | 015663/0499 |
| 43496-US-CNT | 042933/417437 | 12/459,138 | 6/25/2009 | 3296 | 014928/0896 |
| 43672-US-NP | 042933/417438 | 11/129,655 | 5/13/2005 | 9878 | 016880/0279 |
| 43683-US-NP | 042933/417439 | 10/875,079 | 6/23/2004 | 7893 | 015103/0979 |
| 43884-US-NP | 042933/417440 | 11/063,664 | 2/22/2005 | 6687 | 016574/0554 |
| 43930-US-CNT | 042933/417441 | 12/433,326 | 4/30/2009 | 8856 | 015104/0019-(Recorded in parent Appl. No. 10/841,888) |
| 43930-US-NP | 042933/417442 | 10/841,888 | 5/7/2004 | 2211 | 015104/0019 |
| 44032-US-CNT | 042933/417444 | 13/240,499 | 9/22/2011 | 6174 | 020099/0269-(Recorded in parent Appl. No. 11/597,003) |
| 44138-US-PCT | 042933/417445 | 12/083,576 | 2/5/2009 | 1272 | 021413/0001 |
| 44156-US-NP | 042933/417446 | 11/057,118 | 2/11/2005 | 2509 | 016215/0204 |
| 44183-US-CNT | 042933/417448 | 12/924,456 | 9/27/2010 | 9678 | 016568/0609-(Recorded in parent Appl. No. 11/057,065) |
| 44311-US-NP | 042933/417449 | 11/107,334 | 4/15/2005 | 4541 | 016775/0074 |
| 44367-US-NP | 042933/417450 | 10/806,023 | 3/22/2004 | 9971 | 014865/0148 |
| 44521-US-PCT | 042933/417451 | 11/665,971 | 2/12/2008 | 2568 | 020157/0126 |
| 44723-US-NP | 042933/417452 | 10/985,725 | 11/10/2004 | 4767 | 015700/0701 |
| 44842-US-PCT | 042933/417453 | 11/988,184 | 5/22/2009 | 3458 | 022720/0669 |
| 44895-US-PCT | 042933/417454 | 11/631,235 | 12/28/2006 | 1773 | 018752/0973 |
| 47246-US-NP | 042933/417456 | 11/099,981 | 4/5/2005 | 9638 | 016278/0473 |
| 47246-US-PCT | 042933/417457 | 11/887,973 | 10/4/2007 | 1008 | 019979/0535 |
| 47657-US-DIV | 042933/417458 | 13/373,304 | 11/9/2011 | 5069 | 018287/0484-(Recorded in parent Appl. No. 11/453,268) |
| 47780-US-PCT | 042933/417459 | 12/225,528 | 10/7/2009 | 8931 | 023342/0334 |
| 48027-US-NP | 042933/417460 | 11/069,749 | 2/28/2005 | 6588 | 016272/0733 |
| 48047-US-DIV | 042933/417461 | 12/462,775 | 8/6/2009 | 1927 | 015433/0476-(Recorded in parent Appl. No. 10/903,489) |
| 48096-US-NP | 042933/417462 | 11/207,610 | 8/19/2005 | 6644 | 017096/0057 |
| 48246-US-PCT | 042933/417463 | 11/791,508 | 2/21/2008 | 3083 | 020596/0232 |
| 48371-US-NP | 042933/417464 | 10/958,671 | 10/4/2004 | 9747 | 015581/0976 |
| 48710-US-NP | 042933/417466 | 11/331,433 | 1/11/2006 | 7226 | 017673/0016 |

Signature: 
 Thomas Arria

Date: 4/11/12

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By Assignee Nokia Corporation

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|-----------------|---------------------|------------|-------------|-----------|---|
| 48785-US-NP | 042933/417467 | 11/292,752 | 12/1/2005 | 3505 | 017304/0484 |
| 48785-US-PCT | 042933/417468 | 11/720,973 | 8/26/2009 | 5247 | 023147/0996 |
| 49035-US-NP | 042933/417469 | 11/342,261 | 1/26/2006 | 3080 | 017851/0828 |
| 49044-US-NP | 042933/417470 | 11/177,250 | 7/8/2005 | 3584 | 017029/0571 |
| 49054-US-PCT | 042933/417471 | 11/992,242 | 4/27/2009 | 6693 | 022639/0259 |
| 49481-US-NP | 042933/417472 | 11/391,723 | 3/27/2006 | 4295 | 018051/0632 |
| 49486-US-NP | 042933/417473 | 11/404,106 | 4/13/2006 | 8328 | 018111/0692 |
| 49784-US-PCT | 042933/417474 | 11/921,533 | 6/22/2009 | 6581 | 022855/0520 |
| 49786-US-NP | 042933/417475 | 11/181,690 | 7/13/2005 | 2855 | 017096/0050 |
| 49937-US-PCT | 042933/417476 | 12/223,245 | 1/21/2011 | 6651 | 021445/0489 |
| 49952-US-PCT | 042933/417477 | 12/086,667 | 4/5/2010 | 9174 | 024186/0809 |
| 50057-US-PCT | 042933/417478 | 12/083,652 | 4/1/2009 | 1525 | 022485/0738 |
| 50121-US-PCT | 042933/417479 | 11/989,376 | 1/23/2009 | 4927 | 020739/0576 |
| 50470-US-NP | 042933/417480 | 11/594,030 | 11/6/2006 | 3615 | 018801/0532 |
| 50534-US-NP | 042933/417481 | 11/359,963 | 2/21/2006 | 8066 | 017918/0673 |
| 50854-US-NP | 042933/417482 | 11/256,667 | 10/21/2005 | 6431 | 017424/0892 |
| 50922-US-PCT | 042933/417483 | 12/085,124 | 8/1/2009 | 6006 | 021202/0275 |
| 51033-US-NP | 042933/417484 | 11/409,517 | 4/20/2006 | 1145 | 019330/0889 |
| 51489-US-NP | 042933/417485 | 11/349,745 | 2/7/2006 | 6386 | 017843/0458 |
| 51653-US-DIV | 042933/417486 | 12/803,094 | 6/18/2010 | 9944 | 018342/0334 |
| 51684-US-PCT | 042933/417487 | 12/223,750 | 2/2/2009 | 2526 | 022232/0640 |
| 51739-US-NP | 042933/417488 | 11/824,598 | 6/29/2007 | 2516 | 019724/0843 |
| 51932-US-NP | 042933/417489 | 11/431,144 | 5/9/2006 | 5476 | 018068/0475 |
| 52483-US-NP | 042933/417490 | 11/515,499 | 9/1/2006 | 5402 | 018600/0264 |
| 52612-US-CNT | 042933/417491 | 12/930,669 | 1/11/2011 | 6002 | 018206/0174 |
| 45534-US-CNT | 042933/417455 | 13/406,866 | 2/28/2012 | 5828 | 020977/0334-(Recorded in parent Appl. No. 11/918,690) |
| 52713-US-PCT | 042933/417492 | 12/311,303 | 11/3/2009 | 9037 | 022517/0636 |
| 52800-US-PCT[2] | 042933/417493 | 12/227,730 | 9/25/2009 | 6218 | 023310/0961 |
| 52801-US-PCT | 042933/417494 | 12/227,738 | 10/19/2009 | 1452 | 023420/0211 |
| 52805-US-PCT | 042933/417495 | 12/227,728 | 3/10/2010 | 1352 | 024077/0158 |
| 52897-US-NP | 042933/417496 | 11/453,568 | 6/14/2006 | 5299 | 018195/0814 |
| 53047-US-NP | 042933/417497 | 11/436,202 | 5/16/2006 | 6336 | 018237/0891 |
| 53049-US-NP | 042933/417498 | 11/424,042 | 6/14/2006 | 6876 | 018383/0347 |
| 53115-US-NP | 042933/417499 | 11/486,856 | 7/14/2006 | 5380 | 018203/0800 |
| 53474-US-NP | 042933/417500 | 11/523,140 | 9/19/2006 | 3973 | 018435/0142 |
| 55179-US-NP | 042933/417501 | 11/978,207 | 10/26/2007 | 4846 | 020390/0651 |

Signature:


 Thomas Arria

Date:

4/11/12

SCHEDULE A
Revocation of Power of Attorney and New Power of Attorney
By Assignee Nokia Corporation

| Nokia Ref. | Attorney Docket No. | Appl. No. | Filing Date | Conf. No. | Assignment Reel/Frame |
|-----------------|---------------------|------------|-------------|-----------|--|
| 55879-US-NP | 042933/417502 | 11/725,169 | 3/15/2007 | 3685 | 019426/0787 |
| 56029-US-CNT[2] | 042933/417503 | 11/505,539 | 8/16/2006 | | 009222/0221-(Recorded in parent Appl. No. 09/087,253) 012875/0306-(Recorded in parent Appl. No. 09/087,253) 018367/0245-(Recorded in parent Appl. No. 09/087,253) 019206/0370 |
| 56622-US-NP | 042933/417504 | 12/008,703 | 1/10/2008 | 1734 | 020725/0704 |
| 57397-US-PCT | 042933/417505 | 12/665,403 | 4/21/2010 | 1843 | 024224/0773 |
| 61143-US-NP | 042933/417506 | 12/005,038 | 12/20/2007 | 2188 | 020628/0637 |
| 62320-US-NP | 042933/417507 | 12/164,587 | 6/30/2008 | 1578 | 021589/0617 |
| 62513-US-NP | 042933/417508 | 12/069,447 | 2/7/2008 | 6814 | 020885/0589 |
| 62700-US-NP | 042933/417509 | 12/074,545 | 3/3/2008 | 7792 | 021093/0904 |
| 62893-US-NP | 042933/417510 | 12/080,790 | 4/4/2008 | 5470 | 021065/0802 |
| 63627-US-NP | 042933/417511 | 12/157,674 | 6/12/2008 | 8454 | 021144/0503 |
| 63751-US-NP | 042933/417512 | 12/157,169 | 6/5/2008 | 6157 | 021256/0795 |
| 64173-US-NP | 042933/417513 | 12/202,262 | 8/30/2008 | 1982 | 021826/0113 |
| 64305-US-PCT | 042933/417514 | 12/736,515 | 10/13/2010 | 3344 | 025151/0453 |
| 64314-US-PCT | 042933/417515 | 12/988,644 | 10/20/2010 | 3119 | 025199/0702 |
| 64427-US-NP | 042933/417516 | 12/381,152 | 3/6/2009 | 1152 | 022651/0225 |
| 64674-US-NP | 042933/417517 | 12/321,011 | 1/13/2009 | 5341 | 022480/0035 |
| 65129-US-NP | 042933/417518 | 12/317,070 | 12/18/2008 | 9047 | 022424/0484 |
| 65148-US-CIP | 042933/417519 | 12/586,995 | 9/29/2009 | 7159 | 024295/0480 |
| 65148-US-NP | 042933/417520 | 12/319,933 | 1/13/2009 | 8750 | 022178/0424 |
| 65199-US-NP | 042933/417521 | 12/319,968 | 1/13/2009 | 9683 | 022176/0254 |
| 65440-US-NP | 042933/417522 | 12/321,371 | 1/15/2009 | 5608 | 022544/0784 |
| 66100-US-NP | 042933/417523 | 12/339,386 | 12/19/2008 | 7112 | 022356/0080 |
| 66252-US-NP | 042933/417524 | 12/470,855 | 5/22/2009 | 4689 | 023028/0764 |
| 66436-US-NP | 042933/417525 | 12/339,526 | 12/19/2008 | 7382 | 022123/0964 |
| 66461-US-NP | 042933/417526 | 12/459,086 | 6/25/2009 | 3014 | 022929/0709 |
| 66548-US-NP | 042933/417527 | 12/387,313 | 4/29/2009 | 4729 | 023021/0950 |
| 66647-US-NP | 042933/417528 | 12/339,351 | 12/19/2008 | 7051 | 022363/0880 |
| 67421-US-NP | 042933/417529 | 12/386,472 | 4/16/2009 | 5746 | 022665/0750 |
| 69421-US-NP | 042933/417530 | 12/459,022 | 6/24/2009 | 3022 | 023225/0445 |
| 71570-US-NP | 042933/417531 | 12/806,672 | 8/17/2010 | 4424 | 025139/0227 |
| 71802-US-NP | 042933/417533 | 12/858,905 | 8/18/2010 | 6863 | 025096/0652 |

Signature:



Thomas Arria

Date:

4/11/12

LIMITED POWER OF ATTORNEY

that we, the undersigned, under the authority granted to each of us to sign jointly on behalf of

NOKIA CORPORATION
Kellalahdentie 4
02150 Espoo
Finland

hereby authorize the following person

Thomas Arria
Nokia Corporation
5 Wayside Road
01803 Burlington
U.S.A.

Nokia Corporation
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Fax: +358 7186 38226

Business Identity Code
0112938-99, (Finland)

In his capacity as Senior IP Specialist, Patenting, to sign alone in the name of Nokia Corporation all the documents that relate to the filing, prosecution and registration of patent applications, as well as post-grant operations relating to patents granted based on such patent applications. Such documents may include without limitation case-specific Powers of Attorney, Assignment Deeds for assigning the ownership of an invention to Nokia, Novelty Declarations and Inventorship Declarations.

The rights granted under this Power of Attorney may not be transferred further, other than as specified above.

The authority granted by this Power of Attorney shall expire six (6) months from the date of execution.

Notwithstanding the foregoing, the authority granted by this Power of Attorney shall expire when the authorized person's employment with Nokia ends.

This Power of Attorney is duly signed on this day of January 1, 2012.

NOKIA CORPORATION


By:
Name: Harri Honkasalo
Title: Director,
Legal and Intellectual Property


By:
Name: Paul Melin
Title: Vice President,
Legal and Intellectual Property